

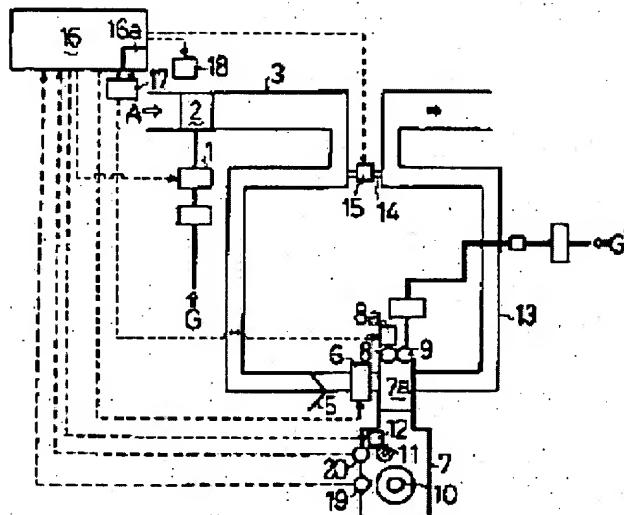
## COMBUSTION CONTROL METHOD OF GAS ENGINE

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### Abstract of JP11200915

**PROBLEM TO BE SOLVED:** To control combustion in an inexpensive and simple manner by detecting a difference between maximum and minimum values in the rotational speed of a crankshaft in one stroke over plural strokes, operating a variation degree of the difference between both these maximum and minimum values as a rotative variation value, and carrying out this combustion control after judging the degree of stability of combustion on the basis of this rotative variation value. **SOLUTION:** A difference between both maximum and minimum values in the rotational speed of a crankshaft 10, namely, a speed difference is detected by a crankshaft rotational speed sensor 19. Then this speed difference is detected over plural strokes, a rotative variation value showing variations in the speed difference in this while is calculated. The rotative variation value means is made, for example, a standard deviation of this speed difference. As a judging reference value of a misfiring state, a threshold value of this rotative variation value is set up, and in the case where the calculating rotative variation value has exceeded the threshold value, opening of an air-fuel ratio adjusting fuel control valve 1 is opened wide, reducing an air-fuel ratio in this way. In this connection, a throttle 5 is presecured to stabilize an air supply over the prescribed numbers of strokes during the period of detecting the speed difference.



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